

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	31	(US-20040011235-\$ or US-20070295236-\$ or US-20060060103-\$ or US-20050189241-\$ or US-20060011088-\$).did. or (US-5020437-\$ or US-6899033-\$ or US-6161482-\$ or US-5730462-\$ or US-5648637-\$ or US-5372069-\$ or US-5033385-\$ or US-4391197-\$ or US-3669020-\$ or US-5593181-\$ or US-5483896-\$ or US-6209460-\$ or US-6055909-\$ or US-6612242-\$ or US-5499582-\$ or US-4624186-\$ or US-4353301-\$ or US-5763820-\$ or US-4408534-\$ or US-5743556-\$ or US-5179778-\$ or US-5915694-\$ or US-6510798-\$ or US-4314509-\$).did. or (US-2797892-\$ or US-3264997-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/14 15:01
L2	11	11 and (protrusion or groove or depression)	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/14 15:02
L3	31	(US-20040011235-\$ or US-20070295236-\$ or US-20060060103-\$ or US-20050189241-\$ or US-20060011088-\$).did. or (US-5020437-\$ or US-6899033-\$ or US-6161482-\$ or US-5730462-\$ or US-5648637-\$ or US-5372069-\$ or US-5033385-\$ or US-4391197-\$ or US-3669020-\$ or US-5593181-\$ or US-5483896-\$ or US-6209460-\$ or US-6055909-\$ or US-6612242-\$ or US-5499582-\$ or US-4624186-\$ or US-4353301-\$ or US-5763820-\$ or US-4408534-\$ or US-5743556-\$ or US-5179778-\$ or US-5915694-\$ or US-6510798-\$ or US-4314509-\$).did. or (US-2797892-\$ or US-3264997-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/14 15:30
S3	549	(102/336,338,345,346).CQLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/16 12:36
S4	128	(d22/112).CQLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/16 12:36

S5	2	S3 and (stack with (pellet or disk))	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:37
S6	0	("2004/0011235").URPN.	USPAT	OR	ON	2008/01/16 12:38
S7	7	S3 and (stack)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:40
S8	5	S3 and (layered)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:43
S9	801	flare with stack	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:43
S10	5	flare with stack and pyrotechnic	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:43
S11	0	flare with layered and pyrotechnic	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:44
S12	35236	("102").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/16 12:45
S13	456	S12 and stack	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:46
S14	89	S12 and stack with (pellet or disk)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:46
S15	13	(US-20040011235-\$ or US-20070295236-\$ or US-20060060103-\$ or US-20050189241-\$).did. or (US-5020437-\$ or US-6899033-\$ or US-6161482-\$ or US-5730462-\$ or US-5648637-\$ or US-5372069-\$ or US-5033385-\$ or US-4391197-\$ or US-3669020-\$).did.	US-PGPUB; USPAT	OR	ON	2008/01/16 12:50
S16	3	S15 and rod	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:50
S17	2	S3 and disk with protrusion	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:55
S18	64	(431/99).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/23 18:46

S19	13	(US-20040011235-\$ or US-20070295236-\$ or US-20060060103-\$ or US-20050189241-\$).did. or (US-5020437-\$ or US-6899033-\$ or US-6161482-\$ or US-5730462-\$ or US-5648637-\$ or US-5372069-\$ or US-5033385-\$ or US-4391197-\$ or US-3669020-\$).did.	US-PGPUB; USPAT	OR	ON	2008/01/23 18:53
S20	549	(102/336,338,345,346).OCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/23 18:53
S21	3	S20 and (frustum)	US-PGPUB; USPAT	OR	ON	2008/01/23 18:53
S22	0	(flare with pellet) with frustum	US-PGPUB; USPAT	OR	ON	2008/01/23 18:54
S23	0	(pyrotechnic with pellet) with frustum	US-PGPUB; USPAT	OR	ON	2008/01/23 18:54
S24	0	(pyrotechnic with disk) with frustum	US-PGPUB; USPAT	OR	ON	2008/01/23 18:55
S25	1	pyrotechnic with frustum	US-PGPUB; USPAT	OR	ON	2008/01/23 18:55
S26	277	pyrotechnic with pellet	US-PGPUB; USPAT	OR	ON	2008/01/23 18:55
S27	21	pyrotechnic with pellet with disk	US-PGPUB; USPAT	OR	ON	2008/01/23 18:55
S28	35241	("102").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/23 18:56
S29	82	S28 and (disk or pellet or plate) with (pyrotechnic or explosive or energetic) with (frustum or conical or stack)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/23 18:57
S30	68484	("431").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/23 19:01
S31	0	S30 and (disk or pellet or plate) with (pyrotechnic or explosive or energetic) with (frustum or conical or stack)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/23 19:01
S32	171	(disk or pellet or plate) with (pyrotechnic or explosive or energetic) with (frustum or conical or stack)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/23 19:23
S33	16	("2797892").URPN.	USPAT	OR	ON	2008/01/23 19:31
S34	773	(flare or pyrotechnic or explosive or propellant or energetic) with (shape or configuration) with (disk or pellet or conical or cone)	USPAT	OR	ON	2008/01/23 19:33

S35	12	(flare or pyrotechnic or explosive or propellant or energetic) with (shape or configuration) with (disk or pellet or conical or cone) with (stack or layered)	USPAT	OR	ON	2008/01/23 19:33
S36	8	("3490466"   "4140471"   "4373902").PN. OR ("4652233").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/23 19:34
S37	18882	(frustum or frustum)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/23 19:37
S38	38	(frustum or frustum) with (pyrotechnic or energetic or propellant or explosive)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/23 19:38
S39	262	(disk or pellet) with shape with (pyrotechnic or energetic or propellant or explosive)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/23 19:41
S40	14	("0846612"   "1920075"   "3054353"   "3664133"   "4876962"   "5160804"   "5180883"   "5335599"   "5712445"   "5892172").PN. OR ("6209460").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/23 19:47
S41	18	(US-20040011235-\$ or US-20070295236-\$ or US-20060060103-\$ or US-20050189241-\$ or US-20060011088-\$).did. or (US-5020437-\$ or US-6899033-\$ or US-6161482-\$ or US-5730462-\$ or US-5648637-\$ or US-5372069-\$ or US-5033385-\$ or US-4391197-\$ or US-3669020-\$ or US-5593181-\$ or US-5483896-\$ or US-6209460-\$).did. or (US-2797892-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/23 19:55
S42	6	S41 and flare	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/23 19:55
S43	0	("2004/0011235").URPN.	USPAT	OR	ON	2008/01/23 19:58
S44	1	S20 and flare with stack	USPAT	OR	ON	2008/01/23 19:59
S45	1	("4,171,669").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/23 19:59
S46	22	S20 and flare with disk	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/23 20:00

S47	8	("5056435"   "5639984"   "5834680"   "6190475"   "6230628"   "6412416"   "6427599"   "6675716").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/23 20:06
S48	2	("5561259"   "6055909").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/23 20:06
S49	8	("5136950"   "5343794"   "5427032"   "5435224"   "5561260"   "5866840"   "6055909"   "6662700").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/23 20:08
S50	8	("4171669"   "4860657"   "5499582"   "5561260"   "5631441"   "5661257"   "6612242"   "6659012").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/23 20:08
S51	1	("3908550").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/23 20:09
S52	21	(US-20040011235-\$ or US-20070295236-\$ or US-20060060103-\$ or US-20050189241-\$ or US-20060011088-\$).did. or (US-5020437-\$ or US-6899033-\$ or US-6161482-\$ or US-5730462-\$ or US-5648637-\$ or US-5372069-\$ or US-5033385-\$ or US-4391197-\$ or US-3669020-\$ or US-5593181-\$ or US-5483896-\$ or US-6209460-\$ or US-6055909-\$ or US-6612242-\$ or US-5499582-\$).did. or (US-2797892-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/24 08:16
S53	9	S52 and flare	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/24 08:16
S54	13	("2961962"   "3625152"   "3713636"   "4324183"   "4353301"   "4624186"   "4700628"   "4860657"   "5337671"   "5499582"   "5585594"   "5817969").PN. OR ("6612242").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/24 08:18
S55	6	S54 and flare	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/24 08:19
S56	35243	("102").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/25 16:07
S57	94	S56 and (disk with (propellant or energetic or flare or pyrotechnic) with (protrusion or rod or lip or connected or affixed or fixed))	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/25 16:07

S58	29	("3636881"   "3700762"   "4062709"   "4149465"   "4408534"   "4572078"   "4702167"   "4864932"   "5024159"   "5024160"   "5101730"   "5101731").PN. OR ("5351619").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/25 16:10
S59	74	S56 and (stack with disk)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/25 16:17
S60	8	S56 and (stack with disk) with (connected or fixed or affixed or rod)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/25 16:18
S61	0	(pyrotechnic) with (stack with disk) with (connected or fixed or affixed or rod)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/25 16:20
S62	0	(energetic) with (stack with disk) with (connected or fixed or affixed or rod)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/25 16:20
S63	2	propellant with (stack with disk) with (connected or fixed or affixed or rod)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/25 16:20
S64	1	flare with (stack with disk) with (connected or fixed or affixed or rod)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/25 16:21
S65	34300	("89").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/25 16:26
S66	43	S65 and (stack with (disk or flare or pyrotechnic or propellant or energetic))	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/25 16:27
S67	89	S56 and (stack with (disk or pellet))	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/25 16:30
S68	38	("0552919"   "1758358"   "2991168"   "3396661").PN. OR ("4408534").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/25 16:37
S69	5	("1758358").URPN.	USPAT	OR	ON	2008/01/25 16:39
S70	26	("1758358"   "20030155112"   "20030155125"   "20050066836"   "2779278"   "2921519"   "3174545"   "3270668"   "4160412"   "4184430"   "4290486"   "4329925"   "4798244"   "5005641"   "5005649"   "5690171"   "6082450"   "6494261"   "6732799"   "6817298"   "6991044").PN. OR ("7228907").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/25 16:40

S71	115	(gas near4 generant) with (stack or disk)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/25 16:42
S72	233	(pyrotechnic or propellant or energetic or explosive) with (screw or rod or threaded) with (disk or stack)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/25 16:49
S73	18	("3204326"   "3510934"   "3540114"   "3889348"   "4261099"   "4715105").PN. OR ("5179778").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/25 16:52
S74	62	("2381130"   "2448343"   "2551596"   "2813719"   "2907536"   "2923549"   "2953377"   "2998754"   "3002708"   "3135511"   "3225655"   "3410559"   "3505926"   "3610096"   "3720167"   "3808941"   "3871321"   "3898661"   "3899975"   "3932057"   "4062112"   "4140433"   "4195571"   "4205848"   "4406227"   "4428583"   "4446793"   "4607849"   "4718320"   "4770368"   "4796536"   "4852455"   "4860657"   "4899662"   "5074216"   "5179778"   "5249924"   "5445078"   "5499582").PN. OR ("5915694").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/25 16:58
S75	32	(pellet or disk or rings) with stack with rod and (energetic or pyrotechnic or explosive)	US-PGPUB; USPAT	OR	ON	2008/01/29 14:42
S76	16	("3048112"   "3128600"   "3217651"   "3218798"   "3278356"   "3362158"   "3722421"   "3811380").PN. OR ("4314509").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/29 14:50
S77	13	("0997566"   "3368489"   "3623431"   "3722420"   "3812784"   "3835783"   "4220090").PN. OR ("4574701").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/29 14:52
S78	11	flare with stack with (disk or pellet)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/29 14:53
S79	1245	flare with (disk or pellet)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/29 14:54

S80	33	flare with (disk or pellet) with rod	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/29 14:54
S81	1290	disk near5 rod and (propellant or explosive or flare or energetic)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/29 14:57
S82	31	disk with affixed with rod and (propellant or explosive or flare or energetic)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/29 14:58
S83	31	(US-20040011235-\$ or US-20070295236-\$ or US-20060060103-\$ or US-20050189241-\$ or US-20060011088-\$).did. or (US-5020437-\$ or US-6899033-\$ or US-6161482-\$ or US-5730462-\$ or US-5648637-\$ or US-5372069-\$ or US-5033385-\$ or US-4391197-\$ or US-3669020-\$ or US-5593181-\$ or US-5483896-\$ or US-6209460-\$ or US-6055909-\$ or US-6612242-\$ or US-5499582-\$ or US-4624186-\$ or US-4353301-\$ or US-5763820-\$ or US-4408534-\$ or US-5743556-\$ or US-5179778-\$ or US-5915694-\$ or US-6510798-\$ or US-4314509-\$).did. or (US-2797892-\$ or US-3264997-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/29 14:59
S84	10	S83 and rod	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/29 14:59
S85	31	(US-20040011235-\$ or US-20070295236-\$ or US-20060060103-\$ or US-20050189241-\$ or US-20060011088-\$).did. or (US-5020437-\$ or US-6899033-\$ or US-6161482-\$ or US-5730462-\$ or US-5648637-\$ or US-5372069-\$ or US-5033385-\$ or US-4391197-\$ or US-3669020-\$ or US-5593181-\$ or US-5483896-\$ or US-6209460-\$ or US-6055909-\$ or US-6612242-\$ or US-5499582-\$ or US-4624186-\$ or US-4353301-\$ or US-5763820-\$ or US-4408534-\$ or US-5743556-\$ or US-5179778-\$ or US-5915694-\$ or US-6510798-\$ or US-4314509-\$).did. or (US-2797892-\$ or US-3264997-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/13 15:39
S86	7	S85 and (infrared or visual)	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/13 15:40



S87	4	S85 and (infrared or visual) and (thread or screw)	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/13 16:08
S88	549	(102/336,338,345,346).OCLS	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/13 16:17
S89	4	S88 and (flare with (tapered or angled or frustum))	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/13 16:17
S90	35261	(*102").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/13 16:20
S91	143	S90 and (pellet or disk) with (tapered)	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/13 16:20
S92	5	(pyrotechnic or energetic) with (pellet or disk) with (tapered)	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/13 16:23
S93	3	flare with pellet with stack	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/13 16:25
S94	3016	pellet with surface near3 area	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/13 16:26
S95	97	pellet with surface near3 area and (pyrotechnic or energetic)	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/13 16:26
S96	1	(*20040011235").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/13 16:28
S97	1	S96 and (surface with area)	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/13 16:29

2/14/2008 3:44:50 PM

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